

AMENDMENTS TO THE SPECIFICATION

Please add the following section between the Title of the application and the section entitled "Field of the Invention":

"Reference(s) to Related Application(s)"

The present application claims priority from provisional application serial no. 60/188,177, entitled "Optimal Transmit Array Weighting for DS-CDMA with Channel Feedback," filed March 9, 2000, which is commonly owned and incorporated herein by reference in its entirety."

Please amend the paragraph beginning on page 2, line 22, as follows:

In addition, current methods for weighting the coefficients do not account for the self-interference introduced by multipath delay. In fact, the current method is optimal only if one of the following two conditions hold: (i) the propagation channel has only a single path, or (ii) the ratio of intra-cell interference power to inter-cell interference power is zero. The latter condition can never be met precisely, but may be an acceptable approximation in some circumstances. In the absence of conditions (i) or (ii), situations arise where the current methods for weighting the coefficients perform worse than a much simpler selection transmit diversity (STD) weighting system.

Please amend the title on page 3, line 25, as follows:

~~Detailed Description of the Invention~~

Please insert the following title before the paragraph beginning on page 4, line 1:

Detailed Description of the Invention

Please amend the paragraph beginning on page 4, line 16, as follows:

The present invention may be more fully described with reference to FIGS. 1-~~X6~~. FIG. 1 is a block diagram of a wireless communication system 100 in accordance with an embodiment of the present invention. Preferably communication system 100 is a code

division multiple access (CDMA) communication system that includes multiple ("K") orthogonal communication channels, although those who are of ordinary skill in the art realize that that the present invention may be utilized in any wireless communication system, such as a time division multiple access (TDMA) communication system or an orthogonal frequency division multiplexing (OFDM) communication system. Preferably, each communication channel comprises one of multiple orthogonal spreading codes, such as Pseudo-noise (PN) sequences such as Walsh codes. The use of spreading codes permits the coexistence of multiple communication channels in the same frequency bandwidth.